

## CLAIMS

- 1) Profile (200, 200', 200'', 200''') designed for the construction of a floor (100) for a pool, and that can float or be immersed, the profile (200, 200', 200'', 200''') being provided with at least one internal cavity (202) crossing it longitudinally and which is intended to be used as ballast, the profile (200, 200', 200'', 200''') presenting a first end and a second end sealed respectively by a first end piece (250, 250', 250a, 25Db) and a second end piece (250, 250', 250a, 250b) provided with connection means (270) through which the internal cavity (202) can be filled or emptied, characterized in that the connection means (270) are connected respectively to two channels (272) opening out, for the one, into the upper section of the internal cavity (202) and, for the other, into the lower section of the internal cavity (202).
- 2) Profile (200', 200'', 200''') according to claim 1, characterized in that it comprises internally an upper conduit (220) and a lower conduit (222) arranged on either side of the internal cavity (202), which are connected respectively to the said internal cavity (202) by passages (228), the channels (272) being connected respectively with the upper (220) and lower (222) conduits.
- 3) Profile (200', 200'', 200''') according to claim 2, characterized in that a first separating wall (224) and a second separating wall (226) delimiting respectively the two upper (220), lower (222) conduits and the internal cavity (202), one end of the first wall (224) covering one edge of a base (274) of a first end piece (250, 250', 250a, 250b), another end of the first wall (224) being arranged offset from the edge of a base (274) of the second end piece (250, 250', 250a, 250b) to create one of the passages (228), the second separating wall (226) being offset in the opposite direction of the first.
- 4) Profile (200, 200', 200'', 200''') according to any one of claims I to 3, characterized in that it comprises an articulated link (210) enabling it to be assembled in an articulated manner to another profile (200, 200', 200'', 200''') arranged laterally.

- 5) Profile (200, 200', 200'', 200''') according to claim 4, characterized in that the articulated link (210) is constituted by a tongue (212) and a groove (214) arranged respectively on the lateral flanks of each profile (200, 200', 200'', 200''').
- 6) Profile (200, 200', 200'', 200''') according to claim 4 or 5, characterized in that it comprises on either side of its lower wall (206), rims (230) forming a stop to limit the angular motion when closed with another profile (200, 200', 200'', 200''') arranged laterally.
- 7) Profile (200, 200', 200'', 200''') according to claim 6, characterized in that the groove (214) and the rims (230) are realized discontinuously on each profile (200, 200', 200'', 200''') to create a plurality of sites for the water to pass, so as to accelerate the immersion and emersion movements of the floating floor (100).
- 8) Profile (200, 200', 200'', 200''') according to any one of the above claims, characterized in that it is provided with an articulated junction (300) capable of assembling two profiles (200, 200', 200'', 200''') arranged in line with each other, from a mechanical viewpoint and in an articulated manner.
- 9) Profile (200, 200', 200'', 200''') according to claim 8, characterized in that the articulated junction (300) comprises a first sleeve (310) and a second sleeve (320) mounted respectively on shaped supports (280) protruding from the end pieces (250, 250', 250a, 250b).
- 10) Profile (200, 200', 200'', 200''') according to claim 9, characterized in that the sleeves (310, 320) are constituted by a section of a profile (200, 200', 200'', 200''') cut in two parts along its median plane, the sleeves (310, 320) being coupled by the articulated

link (210) and their lateral walls being drilled with holes to allow for the passage of a connecting pipe (340) to the connection means (270).

11) Profile (200, 200', 200'', 200''') according to claim 9 or 10, characterized in that an inclination device (350) is fitted between the two sleeves (310, 320) to increase, according to a specific value, the angle of opening (L) of two profiles (200, 200', 200'', 200''') arranged in line with each other.

12) Profile (200'', 200''') according to any one of the above claims, characterized in that it comprises a plurality of internal cavities (202) arranged side by side and in that each end piece (250', 250a, 250b) is provided by connection means opening out respectively into the internal cavities (202)

13) Profile (200'') according to any one of the above claims, characterized in that it is provided with a third conduit (240) arranged between the upper conduit (22 and an upper wall (204) of the profile (200''), the third conduit (240) being provided to enable the circulation of water to heat it under the effect of solar radiation, each end piece (250a, 250b) being provided with an additional connection means (290) connecting to a channel (276) opening out into the third conduit (240).

14) Profile (200'') according to the claim 13, characterized in that the end piece (250a) is provided with a wall delimiting a channel (276) that is extended by an edge (278) penetrating the third conduit (240).

15) Profile (200, 200', 200'', 200''') according to claim 13 or 14, characterized in that the connection means (270, 290) is via an offset connector.

16) Floor (100) for a pool, that can float or be immersed, the floor (100) comprising profiles (200, 200', 200'', 200') according to any one of the above claims, characterized

in that it is constituted by several groups (01, 02, 03, 04) of profile (200, 200, 200", 200") rows, and that for a single group, the rows are connected one after each other so as to give priority to a filling of the rows located closest to the edge of the floating floor (100).

17) Floor (100) for a pool according to claim 16, characterized in that it is provided with a protective belt (360) bordering its edge, the protective belt (360) incorporating a flexible tube (362).

18) Floor (100) for a pool according to claim 16 or 17, characterized in that the groups (01, 02, 03, 04) are connected, on the one hand to a filling and draining manifold (400) designed to be connected to a pump (P) of the suction/pressure type and, on the other, to a vent manifold (500).

19) Floor (100) for a pool according to claim 18, characterized in that a feed and purge manifold (600) of a water heating circuit is connected in parallel to the filling and draining manifold (400).

20) Floor (100) for a pool according to claim 18, characterized in that another air supply collector (500') is connected in parallel to the air supply collector (500).